

Product Carbon Footprint for dthpkoqpri

Company: dguowujiwi • Standard: GHG Protocol • Production Country: China

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47.81 kgCO₂e

TOTAL FOOTPRINT

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47.81 kgCO₂e

per 1.0 unit

CARBON INTENSITY

47.81 kgCO₂e

per unit

TOP MATERIAL HOTSPOT

Aluminum Casing

12.0 kgCO₂e

PRIMARY EMISSION SCOPE

Scope 3

Value Chain Emissions

Lifecycle Stage Breakdown

Use Phase	29.00 kgCO2e (57.56%)
Material Acquisition & Processing	20.50 kgCO2e (40.69%)
Manufacturing	0.67 kgCO2e (1.33%)
Transportation	0.21 kgCO2e (0.42%)
End-of-Life Treatment (Credit)	-2.57 kgCO2e

Material Carbon Impact

Aluminum Casing	12.0 kgCO2e (58.54%)
Circuit Board	4.0 kgCO2e (19.51%)
ABS Plastic Shell	3.6 kgCO2e (17.56%)
Copper Wire	0.6 kgCO2e (2.93%)
Cardboard Packaging	0.3 kgCO2e (1.46%)

Key Highlights

- **Use Phase Dominance:** The product's energy consumption during its 5-year lifespan is the largest emission hotspot, accounting for 29.00 kgCO₂e.
- **Material Impact:** Raw material acquisition, notably Aluminum Casing and Circuit Boards, is the second major contributor at 20.50 kgCO₂e.
- **Circularity Benefits:** High recyclability (70%) and active take-back programs result in a net carbon credit of -2.57 kgCO₂e at End-of-Life.

Recommendations for Emission Reduction

- **Enhance Use Phase Efficiency:** Optimize product design for lower energy consumption and explore renewable energy integration for end-users.
- **Sustainable Material Sourcing:** Investigate and switch to lower-carbon alternatives for high-impact materials like Aluminum and Circuit Boards.
- **Optimize Logistics:** Implement strategies to reduce transport distances and shift to more energy-efficient modes across the supply chain.
- **Strengthen Circularity:** Expand take-back programs to include repair, refurbishment, or remanufacturing options to extend product lifespan.